

SEQUENCE LISTING

<110> Hogarth, P. Mark
Powell, Maree S.
McKenzie, Ian F.C.
Maxwell, Kelly F.
Garrett, Thomas P.J.
Epa, Vidana

<120> THREE DIMENSIONAL STRUCTURES AND MODELS OF Fc RECEPTORS
AND USES THEREOF

<130> 4102-4

<140> Not Yet Assigned

<141> 1999-02-05

<150> 60/099,994

<151> 1998-09-11

<150> 60/073,972

<151> 1998-02-06

<160> 15

<170> PatentIn Ver. 2.0

<210> 1

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PRIMER

<400> 1

tacgaattcc tatggagacc caaatgtctc

30

<210> 2

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PRIMER

<400> 2

cattctagac tattggacag tgatggtcac

30

<210> 3
 <211> 171
 <212> PRT
 <213> Homo sapiens

<400> 3
 Ala Pro Pro Lys Ala Val Leu Lys Leu Glu Pro Pro Trp Ile Asn Val
 1 5 10 15
 Leu Gln Glu Asp Ser Val Thr Leu Thr Cys Gln Gly Ala Arg Ser Pro
 20 25 30
 Glu Ser Asp Ser Ile Gln Trp Phe His Asn Gly Asn Leu Ile Pro Thr
 35 40 45
 His Thr Gln Pro Ser Tyr Arg Phe Lys Ala Asn Asn Asn Asp Ser Gly
 50 55 60
 Glu Tyr Thr Cys Gln Thr Gly Gln Thr Ser Leu Ser Asp Pro Val His
 65 70 75 80
 Leu Thr Val Leu Phe Glu Trp Leu Val Leu Gln Thr Pro His Leu Glu
 85 90 95
 Phe Gln Glu Gly Glu Thr Ile Met Leu Arg Cys His Ser Trp Lys Asp
 100 105 110
 Lys Pro Leu Val Lys Val Thr Phe Phe Gln Asn Gly Lys Ser Gln Lys
 115 120 125
 Phe Ser His Leu Asp Pro Thr Phe Ser Ile Pro Gln Ala Asn His Ser
 130 135 140
 His Ser Gly Asp Tyr His Cys Thr Gly Asn Ile Gly Tyr Thr Leu Phe
 145 150 155 160
 Ser Ser Lys Pro Val Thr Ile Thr Val Gln Val
 165 170

<210> 4
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 4
 Ala Pro Pro Lys Ala Val Leu Lys

1 5

<210> 5

<211> 170

<212> PRT

<213> Homo sapiens

<400> 5

Ala Pro Pro Lys Ala Val Leu Lys Leu Glu Pro Gln Trp Ile Asn Val
1 5 10 15

Leu Gln Glu Asp Ser Val Thr Leu Thr Cys Arg Gly Thr His Ser Pro
20 25 30

Glu Ser Asp Ser Ile Gln Trp Phe His Asn Gly Asn Leu Ile Pro Thr
35 40 45

His Thr Gln Pro Ser Tyr Arg Phe Lys Ala Asn Asn Asn Asp Ser Gly
50 55 60

Glu Tyr Thr Cys Gln Thr Gly Gln Thr Ser Leu Ser Asp Pro Val His
65 70 75 80

Leu Thr Val Leu Ser Glu Trp Leu Val Leu Gln Thr Pro His Leu Glu
85 90 95

Phe Gln Glu Gly Glu Thr Ile Val Leu Arg Cys His Ser Trp Lys Asp
100 105 110

Lys Pro Leu Val Lys Val Thr Phe Phe Gln Asn Gly Lys Ser Lys Lys
115 120 125

Phe Ser Arg Ser Ile Pro Asn Phe Ser Ile Pro Gln Ala Asn His Ser
130 135 140

His Ser Gly Asp Tyr His Cys Thr Gly Asn Ile Gly Tyr Thr Leu Tyr
145 150 155 160

Ser Ser Lys Pro Val Thr Ile Thr Val Gln
165 170

<210> 6

<211> 170

<212> PRT

<213> Homo sapiens

<400> 6

Ala Pro Pro Lys Ala Val Leu Lys Leu Glu Pro Gln Trp Ile Asn Val
1 5 10 15

Leu Gln Glu Asp Ser Val Thr Leu Thr Cys Arg Gly Thr His Ser Pro
20 25 30

Glu Ser Asp Ser Ile Gln Trp Phe His Asn Gly Asn Leu Ile Pro Thr
35 40 45

His Thr Gln Pro Ser Tyr Arg Phe Lys Ala Asn Asn Asn Asp Ser Gly
50 55 60

Glu Tyr Thr Cys Gln Thr Gly Gln Thr Ser Leu Ser Asp Pro Val His
65 70 75 80

Leu Thr Val Leu Ser Glu Trp Leu Val Leu Gln Thr Pro His Leu Glu
85 90 95

Phe Gln Glu Gly Glu Thr Ile Val Leu Arg Cys His Ser Trp Lys Asp
100 105 110

Lys Pro Leu Val Lys Val Thr Phe Phe Gln Asn Gly Lys Ser Lys Lys
115 120 125

Phe Ser Arg Ser Asp Pro Asn Phe Ser Ile Pro Gln Ala Asn His Ser
130 135 140

His Ser Gly Asp Tyr His Cys Thr Gly Asn Ile Gly Tyr Thr Leu Tyr
145 150 155 160

Ser Ser Lys Pro Val Thr Ile Thr Val Gln
165 170

<210> 7

<211> 261

<212> PRT

<213> Homo sapiens

<400> 7

Thr Thr Lys Ala Val Ile Thr Leu Gln Pro Pro Trp Val Ser Val Phe
1 5 10 15

Gln Glu Glu Thr Val Thr Leu His Cys Glu Val Leu His Leu Pro Gly
20 25 30

Ser Ser Ser Thr Gln Trp Phe Val Asn Gly Thr Ala Thr Gln Thr Ser

<213> Homo sapiens

<400> 8

Arg Thr Glu Asp Leu Pro Lys Ala Val Val Phe Leu Glu Pro Gln Trp
1 5 10 15

Tyr Ser Val Leu Glu Lys Asp Ser Val Thr Leu Lys Cys Gln Gly Ala
20 25 30

Tyr Ser Pro Glu Asp Asn Ser Thr Gln Trp Phe His Asn Glu Ser Leu
35 40 45

Ile Ser Ser Gln Ala Ser Ser Tyr Phe Ile Asp Ala Ala Thr Val Asn
50 55 60

Asp Ser Gly Glu Tyr Arg Cys Gln Thr Asn Leu Ser Thr Leu Ser Asp
65 70 75 80

Pro Val Gln Leu Glu Val His Ile Gly Trp Leu Leu Leu Gln Ala Pro
85 90 95

Arg Trp Val Phe Lys Glu Glu Asp Pro Ile His Leu Arg Cys His Ser
100 105 110

Trp Lys Asn Thr Ala Leu His Lys Val Thr Tyr Leu Gln Asn Gly Lys
115 120 125

Asp Arg Lys Tyr Phe His His Asn Ser Asp Phe His Ile Pro Lys Ala
130 135 140

Thr Leu Lys Asp Ser Gly Ser Tyr Phe Cys Arg Gly Leu Val Gly Ser
145 150 155 160

Lys Asn Val Ser Ser Glu Thr Val Asn Ile Thr Ile Thr Gln
165 170

<210> 9

<211> 172

<212> PRT

<213> Homo sapiens

<400> 9

Val Pro Gln Lys Pro Lys Val Ser Leu Asn Pro Pro Trp Asn Arg Ile
1 5 10 15

Phe Lys Gly Glu Asn Val Thr Leu Thr Cys Asn Gly Asn Asn Phe Phe
20 25 30

Glu Val Ser Ser Thr Lys Trp Phe His Asn Gly Ser Leu Ser Glu Glu
35 40 45

Thr Asn Ser Ser Leu Asn Ile Val Asn Ala Lys Phe Glu Asp Ser Gly
50 55 60

Glu Tyr Lys Cys Gln His Gln Gln Val Asn Glu Ser Glu Pro Val Tyr
65 70 75 80

Leu Glu Val Phe Ser Asp Trp Leu Leu Leu Gln Ala Ser Ala Glu Val
85 90 95

Val Met Glu Gly Gln Pro Leu Phe Leu Arg Cys His Gly Trp Arg Asn
100 105 110

Trp Asp Val Tyr Lys Val Ile Tyr Tyr Lys Asp Gly Glu Ala Leu Lys
115 120 125

Tyr Trp Tyr Glu Asn His Asn Ile Ser Ile Thr Asn Ala Thr Val Glu
130 135 140

Asp Ser Gly Thr Tyr Tyr Cys Thr Gly Lys Val Trp Gln Leu Asp Tyr
145 150 155 160

Glu Ser Glu Pro Leu Asn Ile Thr Val Ile Lys Ala
165 170

<210> 10

<211> 170

<212> PRT

<213> Homo sapiens

<400> 10

Ala Pro Pro Lys Ala Val Leu Lys Leu Glu Pro Pro Trp Ile Asn Val
1 5 10 15

Leu Gln Glu Asp Ser Val Thr Leu Thr Cys Gln Gly Ala Arg Ser Pro
20 25 30

Glu Ser Asp Ser Ile Gln Trp Phe His Asn Gly Asn Leu Ile Pro Thr
35 40 45

His Thr Gln Pro Ser Tyr Arg Phe Lys Ala Asn Asn Asn Asp Ser Gly
50 55 60

Glu Tyr Thr Cys Gln Thr Gly Gln Thr Ser Leu Ser Asp Pro Val His

65	70	75	80
Leu Thr Val Leu Ser Glu Trp Leu Val Leu Gln Thr Pro His Leu Glu			
85	90	95	
Phe Gln Glu Gly Glu Thr Ile Met Leu Arg Cys His Ser Trp Lys Asp			
100	105	110	
Lys Pro Leu Val Lys Val Thr Phe Phe Gln Asn Gly Lys Ser Gln Lys			
115	120	125	
Phe Ser Arg Leu Asp Pro Thr Phe Ser Ile Pro Gln Ala Asn His Ser			
130	135	140	
His Ser Gly Asp Tyr His Cys Thr Gly Asn Ile Gly Tyr Thr Leu Phe			
145	150	155	160
Ser Ser Lys Pro Val Thr Ile Thr Val Gln			
165	170		
<210> 11			
<211> 170			
<212> PRT			
<213> Homo sapiens			
<400> 11			
Ala Pro Pro Lys Ala Val Leu Lys Leu Glu Pro Pro Trp Ile Asn Val			
1	5	10	15
Leu Gln Glu Asp Ser Val Thr Leu Thr Cys Trp Gly Ala Arg Ser Pro			
20	25	30	
Glu Ser Asp Ser Ile Gln Trp Phe His Asn Gly Asn Leu Ile Pro Thr			
35	40	45	
His Thr Gln Pro Ser Tyr Arg Phe Lys Ala Asn Asn Asn Asp Ser Gly			
50	55	60	
Glu Tyr Thr Cys Gln Thr Gly Gln Thr Ser Leu Ser Asp Pro Val His			
65	70	75	80
Leu Thr Val Leu Phe Glu Trp Leu Val Leu Gln Thr Pro His Leu Glu			
85	90	95	
Phe Gln Glu Gly Glu Thr Ile Met Leu Arg Cys His Ser Trp Lys Asp			
100	105	110	

Lys Pro Leu Val Lys Val Thr Phe Phe Gln Asn Gly Lys Ser Gln Lys
 115 120 125

Phe Ser His Leu Asp Pro Thr Phe Ser Ile Pro Gln Ala Asn His Ser
 130 135 140

His Ser Gly Asp Tyr His Cys Thr Gly Asn Ile Gly Tyr Thr Leu Phe
 145 150 155 160

Ser Ser Lys Pro Val Thr Ile Thr Val Gln
 165 170

<210> 12

<211> 170

<212> PRT

<213> Homo sapiens

<400> 12

Ala Pro Pro Lys Ala Val Leu Lys Leu Glu Pro Pro Trp Ile Asn Val
 1 5 10 15

Leu Gln Glu Asp Ser Val Thr Leu Thr Cys Trp Gly Ala Arg Ser Pro
 20 25 30

Glu Ser Asp Ser Ile Gln Trp Phe His Asn Gly Asn Leu Ile Pro Thr
 35 40 45

His Thr Gln Pro Ser Tyr Arg Phe Lys Ala Asn Asn Asn Asp Ser Gly
 50 55 60

Glu Tyr Thr Cys Gln Thr Gly Gln Thr Ser Leu Ser Asp Pro Val His
 65 70 75 80

Leu Thr Val Leu Phe Glu Trp Leu Val Leu Gln Thr Pro His Leu Glu
 85 90 95

Phe Gln Glu Gly Glu Thr Ile Met Leu Arg Cys His Ser Trp Lys Asp
 100 105 110

Lys Pro Leu Val Lys Val Thr Phe Phe Gln Asn Gly Lys Ser Gln Lys
 115 120 125

Phe Ser Arg Leu Asp Pro Thr Phe Ser Ile Pro Gln Ala Asn His Ser
 130 135 140

His Ser Gly Asp Tyr His Cys Thr Gly Asn Ile Gly Tyr Thr Leu Phe
 145 150 155 160

Ser Ser Lys Pro Val Thr Ile Thr Val Gln
165 170

<210> 13
<211> 287
<212> PRT
<213> Homo sapiens

<400> 13
Met Asp Pro Lys Gln Thr Thr Leu Leu Cys Leu Val Leu Cys Leu Gly
1 5 10 15

Gln Arg Ile Gln Ala Gln Glu Gly Asp Phe Pro Met Pro Phe Ile Ser
20 25 30

Ala Lys Ser Ser Pro Val Ile Pro Leu Asp Gly Ser Val Lys Ile Gln
35 40 45

Cys Gln Ala Ile Arg Glu Ala Tyr Leu Thr Gln Leu Met Ile Ile Lys
50 55 60

Asn Ser Thr Tyr Arg Glu Ile Gly Arg Arg Leu Lys Phe Trp Asn Glu
65 70 75 80

Thr Asp Pro Glu Phe Val Ile Asp His Met Asp Ala Asn Lys Ala Gly
85 90 95

Arg Tyr Gln Cys Gln Tyr Arg Ile Gly His Tyr Arg Phe Arg Tyr Ser
100 105 110

Asp Thr Leu Glu Leu Val Val Thr Gly Leu Tyr Gly Lys Pro Phe Leu
115 120 125

Ser Ala Asp Arg Gly Leu Val Leu Met Pro Gly Glu Asn Ile Ser Leu
130 135 140

Thr Cys Ser Ser Ala His Ile Pro Phe Asp Arg Phe Ser Leu Ala Lys
145 150 155 160

Glu Gly Glu Leu Ser Leu Pro Gln His Gln Ser Gly Glu His Pro Ala
165 170 175

Asn Phe Ser Leu Gly Pro Val Asp Leu Asn Val Ser Gly Ile Tyr Arg
180 185 190

Cys Tyr Gly Trp Tyr Asn Arg Ser Pro Tyr Leu Trp Ser Phe Pro Ser

195	200	205
Asn Ala Leu Glu Leu Val Val Thr Asp Ser Ile His Gln Asp Tyr Thr		
210	215	220
Thr Gln Asn Leu Ile Arg Met Ala Val Ala Gly Leu Val Leu Val Ala		
225	230	235 240
Leu Leu Ala Ile Leu Val Glu Asn Trp His Ser His Thr Ala Leu Asn		
245	250	255
Lys Glu Ala Ser Ala Asp Val Ala Glu Pro Ser Trp Ser Gln Gln Met		
260	265	270
Cys Gln Pro Gly Leu Thr Phe Ala Arg Thr Pro Ser Val Cys Lys		
275	280	285

<210> 14
 <211> 171
 <212> PRT
 <213> Homo sapiens

<400> 14
Ala Ala Pro Pro Lys Ala Val Leu Lys Leu Glu Pro Pro Trp Ile Asn
1 5 10 15
Val Leu Gln Glu Asp Ser Val Thr Leu Thr Cys Gln Gly Ala Arg Ser
20 25 30
Pro Glu Ser Asp Ser Ile Gln Trp Phe His Asn Gly Asn Leu Ile Pro
35 40 45
Thr His Thr Gln Pro Ser Tyr Arg Phe Lys Ala Asn Asn Asn Asp Ser
50 55 60
Gly Glu Tyr Thr Cys Gln Thr Gly Gln Thr Ser Leu Ser Asp Pro Val
65 70 75 80
His Leu Thr Val Leu Ser Glu Trp Leu Val Leu Gln Thr Pro His Leu
85 90 95
Glu Phe Gln Glu Gly Glu Thr Ile Met Leu Arg Cys His Ser Trp Lys
100 105 110
Asp Lys Pro Leu Val Lys Val Thr Phe Phe Gln Asn Gly Lys Ser Gln
115 120 125

Lys Phe Ser His Leu Asp Pro Thr Phe Ser Ile Pro Gln Ala Asn His
 130 135 140

Ser His Ser Gly Asp Tyr His Cys Thr Gly Asn Ile Gly Tyr Thr Leu
 145 150 155 160

Phe Ser Ser Lys Pro Val Thr Ile Thr Val Gln
 165 170

<210> 15

<211> 171

<212> PRT

<213> Homo sapiens

<400> 15

Ala Ala Pro Pro Lys Ala Val Leu Lys Leu Glu Pro Pro Trp Ile Asn
 1 5 10 15

Val Leu Gln Glu Asp Ser Val Thr Leu Thr Cys Gln Gly Ala Arg Ser
 20 25 30

Pro Glu Ser Asp Ser Ile Gln Trp Phe His Asn Gly Asn Leu Ile Pro
 35 40 45

Thr His Thr Gln Pro Ser Tyr Arg Phe Lys Ala Asn Asn Asn Asp Ser
 50 55 60

Gly Glu Tyr Thr Cys Gln Thr Gly Gln Thr Ser Leu Ser Asp Pro Val
 65 70 75 80

His Leu Thr Val Leu Phe Glu Trp Leu Val Leu Gln Thr Pro His Leu
 85 90 95

Glu Phe Gln Glu Gly Glu Thr Ile Met Leu Arg Cys His Ser Trp Lys
 100 105 110

Asp Lys Pro Leu Val Lys Val Thr Phe Phe Gln Asn Gly Lys Ser Gln
 115 120 125

Lys Phe Ser His Leu Asp Pro Thr Phe Ser Ile Pro Gln Ala Asn His
 130 135 140

Ser His Ser Gly Asp Tyr His Cys Thr Gly Asn Ile Gly Tyr Thr Leu
 145 150 155 160

Phe Ser Ser Lys Pro Val Thr Ile Thr Val Gln
 165 170